Appl. No. 10/735,063 Arndt. dated March 20, 2006 Reply to Office Action of December 19, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

i

- 1. (Currently amended) A composite vascular construct comprising a first, blood-contacting component and a second, tissue-contacting component, the first component comprising a load bearing textile construct having an activated, blood compatible surface, the blood compatible surface comprising sulfonic groups and having a biomolecule immobilized thereon, the second component comprising an absorbable construct for tissue ingrowth, wherein at least one of the first and second composites has at least transient occlusive properties.
- (Currently amended) A composite vascular construct as set forth in claim
 wherein the first component comprises a polypropylene fabric having a
 biomolecule immobilized on the blood contacting surface thereof.
- (Original) A composite vascular construct as set forth in claim 1
 wherein the second component comprises a compliant, absorbable film having
 transient occlusive properties.
- 4. (Currently amended) A composite vascular construct as set forth in claim

 2 wherein the blood-contacting surface of the first component comprises

 sulfonic groups and wherein the biomolecule immobilized thereon on the

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blood compatible surface is ionically bound to a basic molecule, the basic molecule being ionically bound to the sulfonic groups.

- (Currently amended) A composite vascular construct as set forth in claim
 4 wherein the basic molecule comprises polylysine.
- (Original) A composite vascular construct as set forth in claim 4
 wherein the biomolecule comprises albumin.
- (Original) A composite vascular construct as set forth in claim 4
 wherein the biomolecule comprises fibringen.
- 8. (Original) A composite vascular construct as set forth in claim 3 wherein the absorbable film comprises a copolyester comprising repeat units derived from two or more cyclic monomers selected from the group consisting of caprolactone, p-dioxanone, glycolide, lactide, trimethylene carbonate, 1,-5 dioxepan-2-one, morpholinedione, and a substituted morpholinedione.
- 9. (Original) A composite vascular construct as set forth in claim 8 wherein the tissue-contacting surface of the absorbable film comprises at least one bioactive compound.
- 10. (Original) A composite vascular construct as set forth in claim 8 wherein the tissue-contacting surface of the absorbable film comprises at least one cell growth promoter.
- (Original) A composite vascular construct as set forth in claim 1 in the form of a vascular graft.

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- 12. (Original) A composite vascular construct as set forth in claim 1 in the form of an endovascular stent graft.
- 13. (Currently amended) A composite vascular construct as set forth in claim
 1 in the form of an a vascular patch.
- 14. (Original) A composite vascular construct as set forth in claim 2 wherein the polypropylene fabric comprises a woven polypropylene fabric.
- 15. (Original) A composite vascular construct as set forth in claim 2 wherein the polypropylene fabric comprises a knitted polypropylene fabric.
- 16. (Original) A composite vascular construct as set forth in claim 1 wherein the second component comprises a compliant, absorbable, microporous sheath.
- 17. (Original) A composite vascular construct as set forth in claim 16 wherein the microporous sheath comprises a continuous cell foam.
- 18. (Original) A composite vascular construct as set forth in claim 16 wherein the microporous sheath comprises a non-woven nano/microfabric.
- 19. (Original) A composite vascular construct as set forth in claim 16 wherein the tissue-contacting surface of the microporous sheath comprises at least one bioactive agent.
- 20. (Original) A composite vascular construct as set forth in claim 16 wherein the tissue-contacting surface of the microporous sheath comprises at least one growth factor.

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21. (Currently amended) A composite vascular construct as set forth in claim I wherein the first component comprises a non-absorbable textile construct comprising fibers selected from the group consisting of polyester, polyether ester, polyether ether ketone, and polyamide, the textile construct comprising immobilized biomolecules on the blood-contacting surface thereof.